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SDCS-ER-76-100

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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Eastern Kazakh SSR, (first event), 21 April 1976**

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SDCS EVENT REPORT NO. 100

Eastern Kazakh SSR, 21 April 1976

Eastern KAZAKH SSR

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	05:05:19.0	04:57:48	49 N	080 E	4.9	N/A
Hagfors	05:05:09.2	04:58:19	51 N	075 E	5.5	N/A

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become

04:58:00.1 49.8N 077.9E 4.9 N/A

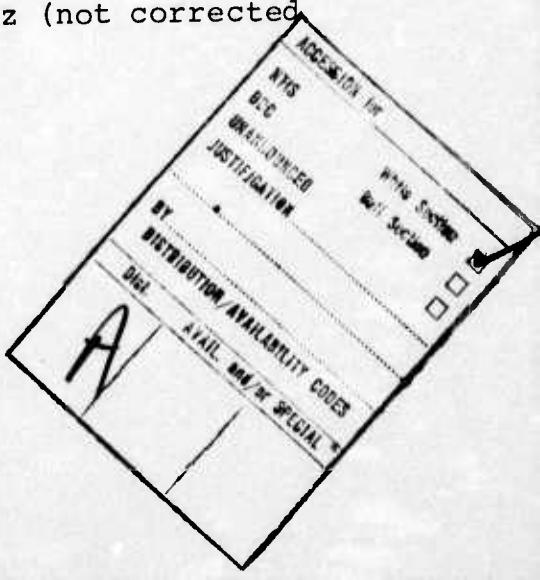
The programs used for LASA, NORSAR and ALPA data recovery are presently undergoing modifications. Information for LASA short-period is reported from their Teleseism Event Report; NORSAR short-period data are obtained from their bulletin. The long-period array beam recovery for these stations will be resumed upon completion of these modifications.

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at WH2YK, RK-ON, FN-WV, CPSO, LASA and NORSAR. All SP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Horizontal SP channels at all SDCS stations were rotated.

The SDCS stations did not record long-period signals for this event and were not included in this report.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response).



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STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	SHORT-PERIOD	INSTRUMENTATION LONG-PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35 41.4 N 085 34 13.5 W	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32 58.0 N 079 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	KS36000	KS36000
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41 41.0 N 134 58 02.0 W	853	18300	SL210 V SL220 H

HYPOCENTER DETERMINATION

INPUT FOR EVENT 21 APR 76
 04:58:00.0 50.000N 80.000E 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CALC	REST		
NAO	05 05 19.0	0.1	0.1	38.0	312.9
WH2YK	05 08 51.3	-0.3	-0.2	66.7	16.9
RK-ON	05 10 06.8	-0.2	-0.5	79.5	354.6
LAO	05 10 31.3	1.0	1.0	83.8	2.9
FN-WV	05 10 59.7	0.1	0.2	89.8	342.5
CPSO	05 11 17.2	-0.7	-0.6	93.7	346.6

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
04:58:18.6	50.611N	77.585E	115. CALC	0.6	7	6
04:58:00.1	49.804N	77.911E	0. REST	0.6	3	6

CALC	REST
3 . 2	3 . 2
1 . 0	1 . 0
0 0 0 0	0 0 0 0
0 0 0 0	0 0 0 0
0 . 0	0 . 0
0 . 0	0 . 0

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF.. LEVEL, SDV= 0.93
 MAJOR 167.6KM. MINOR 41.6KM. AZ= 180 AREA= 21911 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 21 APR 76
 04:58:00.0 50.000N 80.000E 0KM.

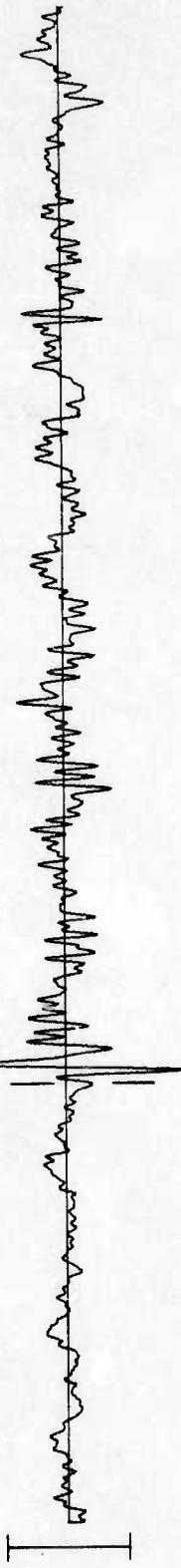
STA.	PHASE	ARRIVAL			MAGNITUDE			DIR	DIST
		TIME	INST	PER	A/T	MB	MS		
NAO	EP	05 05 19.0	AB	0.6	41.	4.81		38.0	
WH2YK	EP	05 08 51.3	SPZ	0.6	28.	5.15		66.7	
RK-ON	EP	05 10 06.8	SPZ	0.4	28.	4.90		79.5	
LAO	EP	05 10 31.3	SAE	99.9	9999.				
FN-WV	EP	05 10 59.7	SPZ	0.5	8.	4.60		89.8	
CPSO	EP	05 11 17.2	SPZ	0.7	14.	4.97		93.7	

ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA
04:58:18.6	50.611N	77.585E	115. CALC	4.78	0.20	5
04:58:00.1	49.304N	77.911E	0. REST	4.89	0.20	5

WH2YK 21 APR 76

05:08:51.3

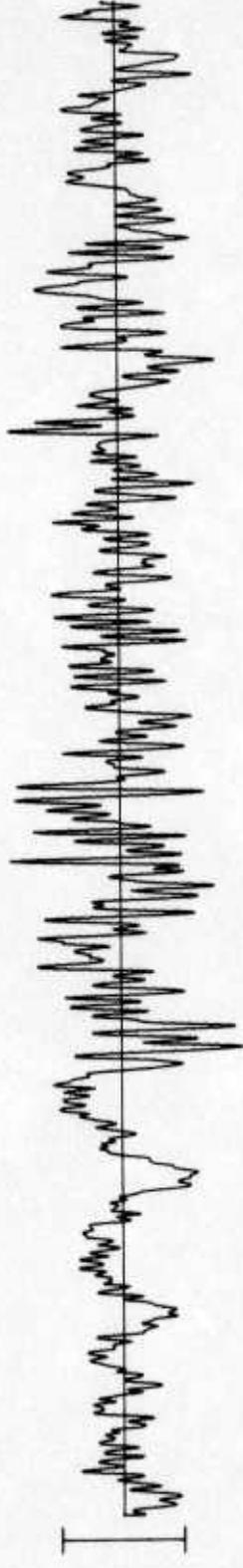
SPZ
26.23 MU



SPR
13.15 MU

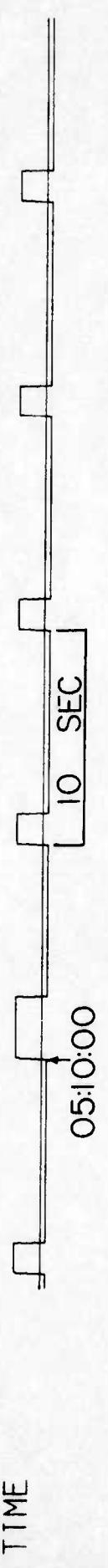
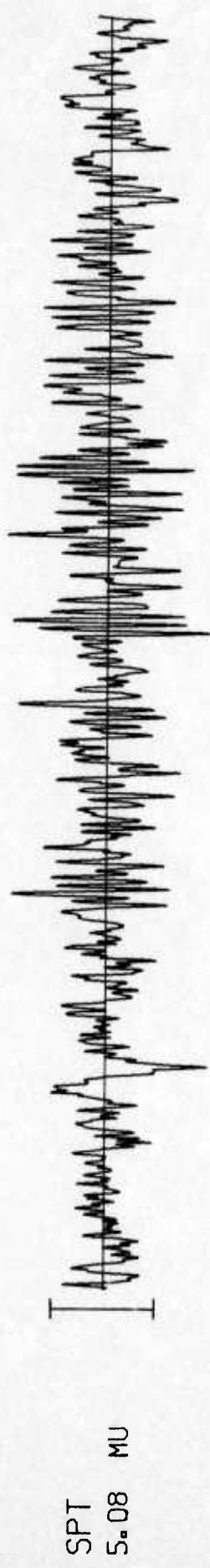
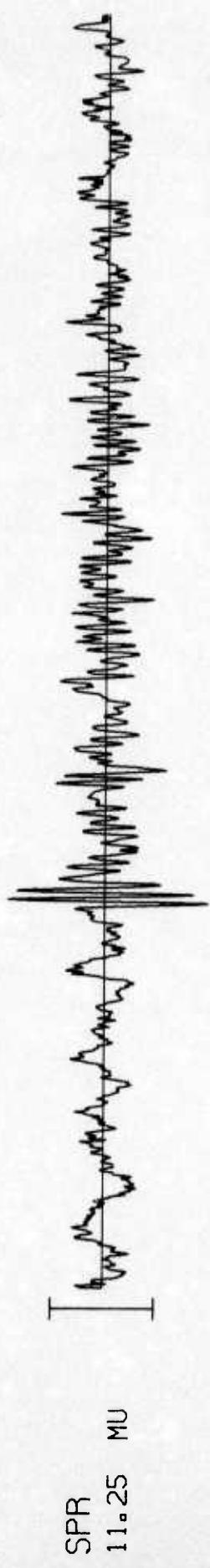
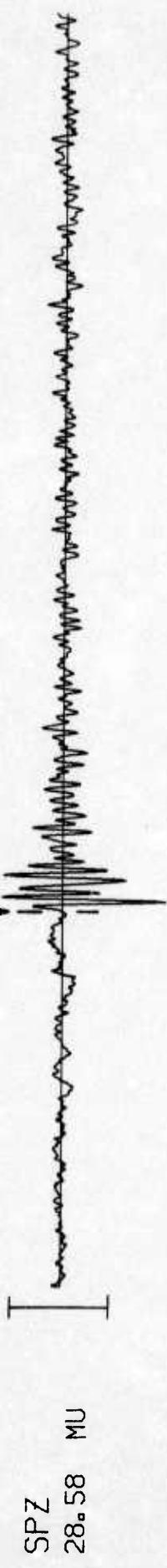


SPT
9.94 MU

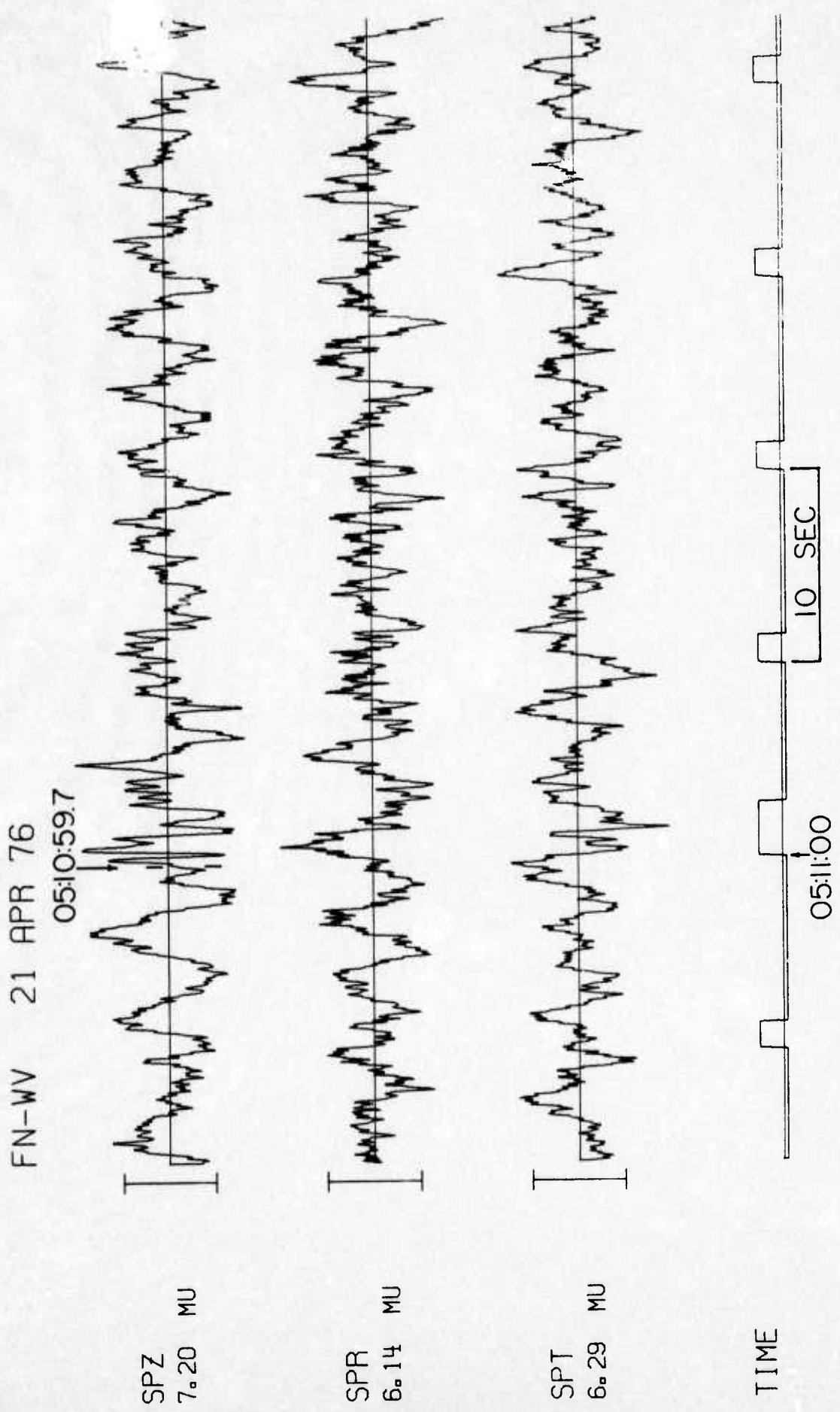


RK-ON 21 APR 76

05:10:06.8



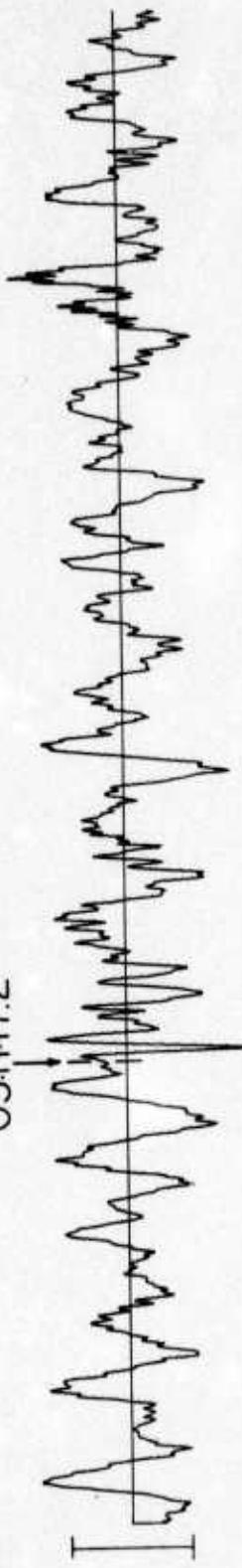
05:10:00



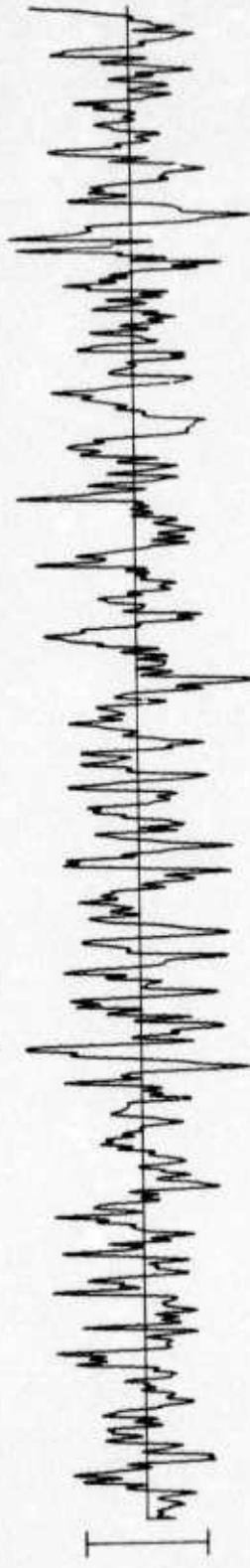
CPSO 21 APR 76

05:11:17.2

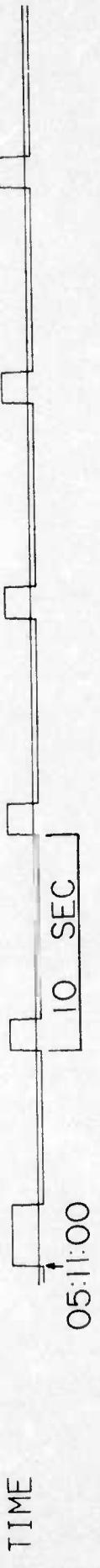
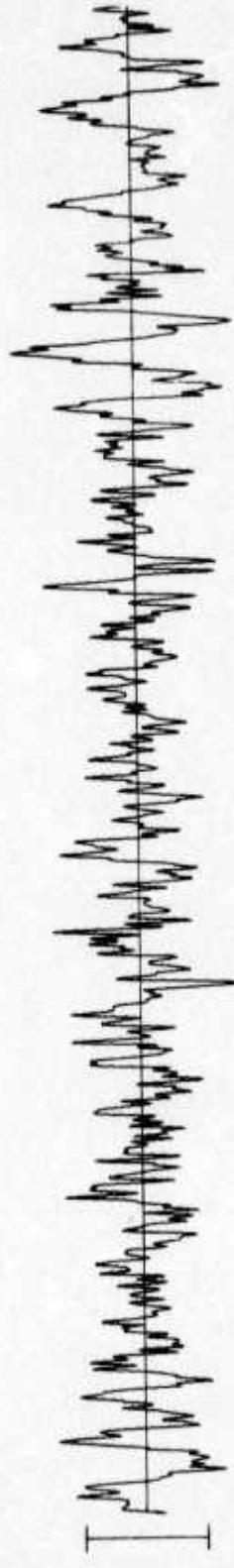
SPZ
9.09 MU



SPR
5.91 MU



SPT
4.78 MU



HN-ME 21 APR 76

